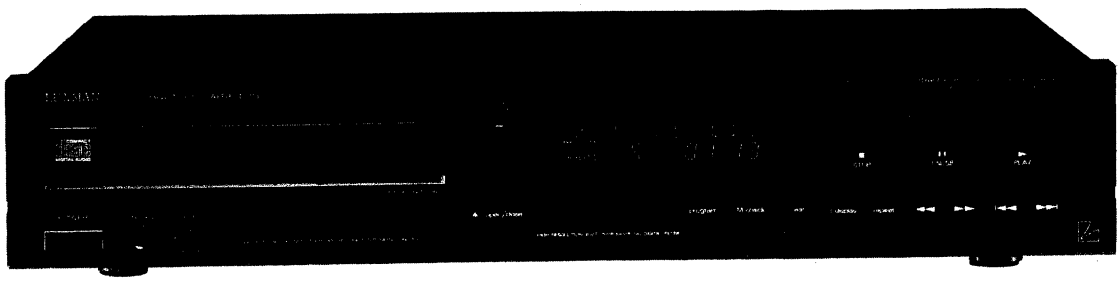
SERVICE MANUAL

Compact Disc Player

D-113



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Specifications

CD SECTION

System	Optical (Compact Disc System)
Quantizing Bit Number	16 Bit Linear System
Channels	2 channel, Stereo
Pickup	Semiconductor Laser Pickup
Output Voltage	2V±1dB
Frequency Response	20Hz~20kHz−2dB
T.H.D (1kHz)	0.01%
S/N	85dB
Dynamic Range	83dB
Separation (1kHz)	75dB
Head Phone ·Output Voltage (1kHz, 20dB/80 ohm)	200mV±1dB
Power Supply	AC120/220/240V, 50Hz (AD Model Only) AC120V, 60Hz (UZ, UQ Model Only)
Power Consumption	12W
Semiconductors	14 IC's, 21 Transistors 26 Diodes, 1 Zener Diodes
Dimension (W × H × D)	438 × 85 × 314mm
Weight	4.3kg

COMPACT DISC

Track Pitch	1.6 μ m
Modulation Frequency	44.1kHz
Transfer Rate	4.3218M bit/sec
Dimensions	120 × 1.2mm

NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

UZ : For North American model only
UQ : For Canadian model only
AD : For West Germany model only
Others : Common

Parts Locations and Disassembly Instructions

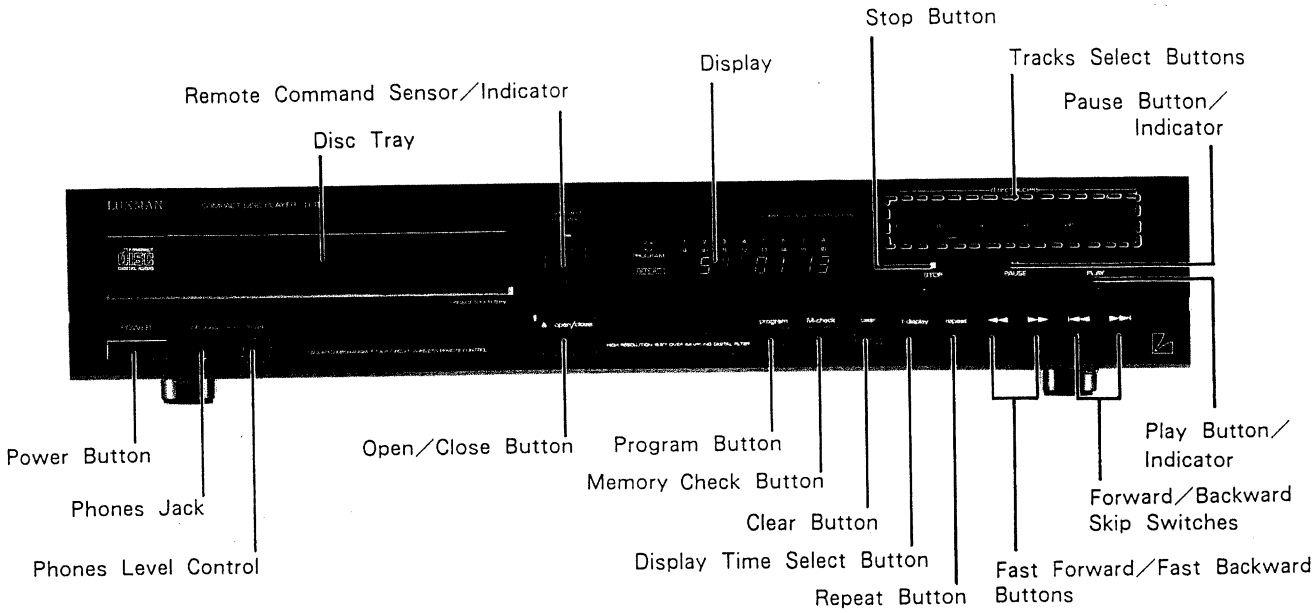


Figure 1

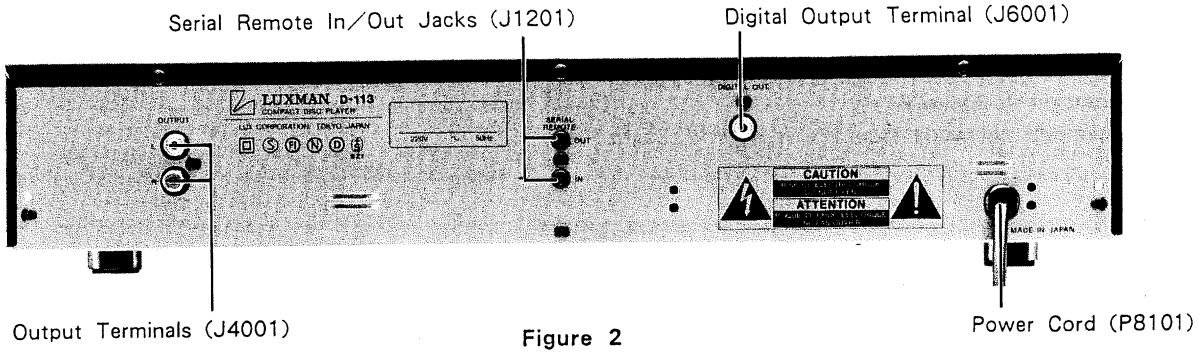


Figure 2

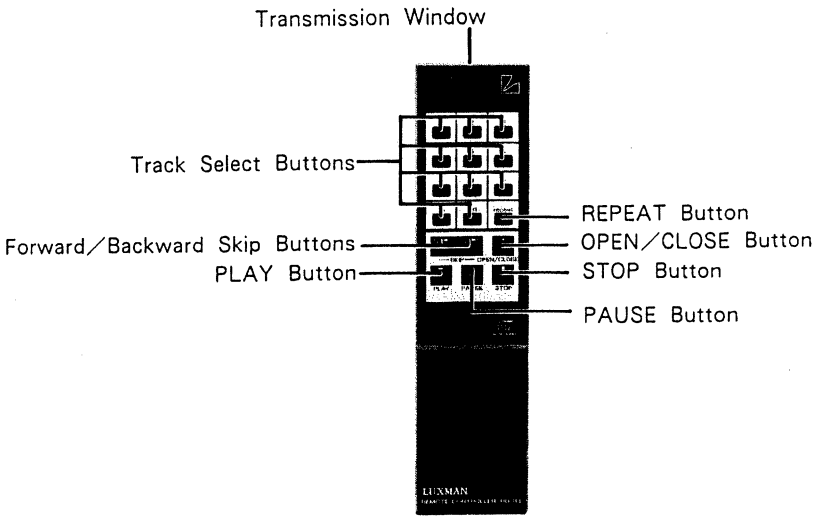


Figure 3

1. Removal of CD Mechanism

(1) Open the disc tray.
(2) Remove the panel tray in the arrow direction as shown in Figure 5.
(3) Remove three screws marked "○" as shown in Figure 4.
(4) Disconnect all wires from the CD Mechanism.

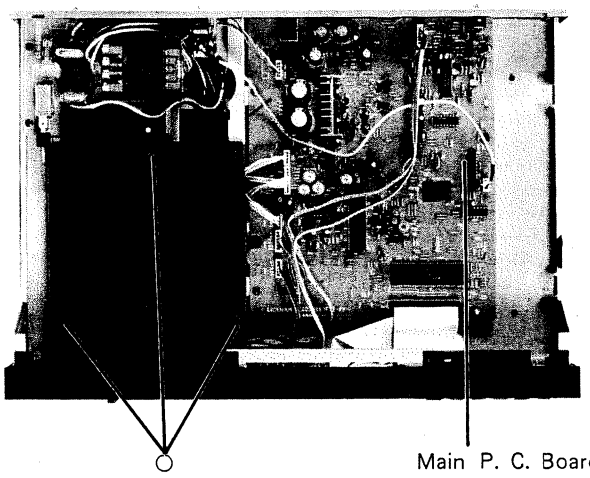


Figure 4

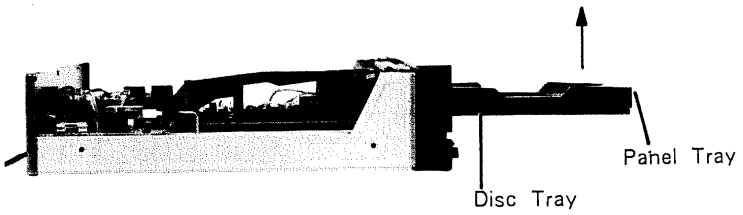


Figure 5

2. Removal of FL/Keyboard P. C. Board

(1) After removal of front panel, remove thirteen hooks as shown in Figure 6.
(2) Disconnect connector from the Main P. C. Board.

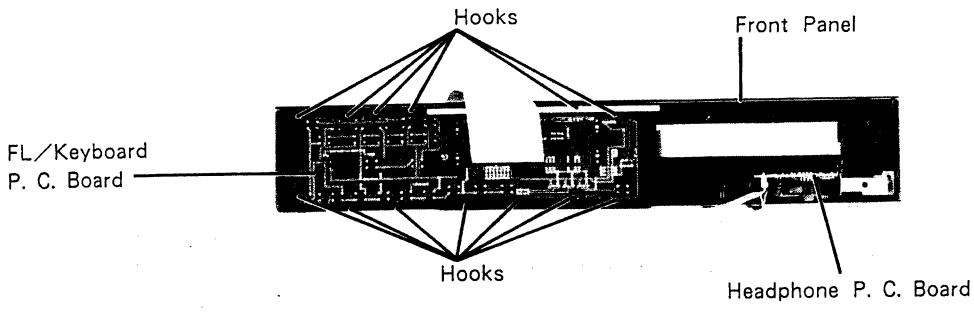


Figure 6

Adjustment Procedures

1. CD SECTION

(1) Connections

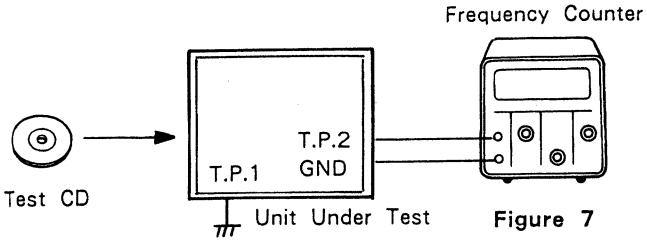


Figure 7

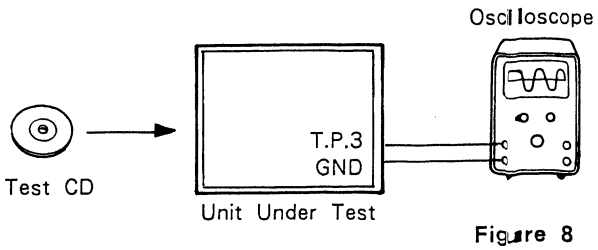


Figure 8

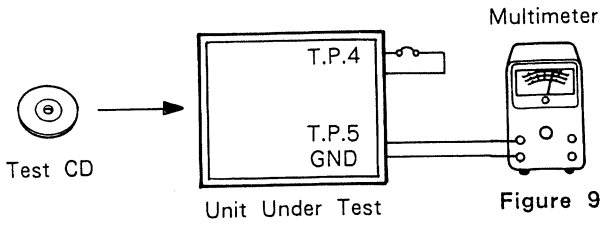


Figure 9

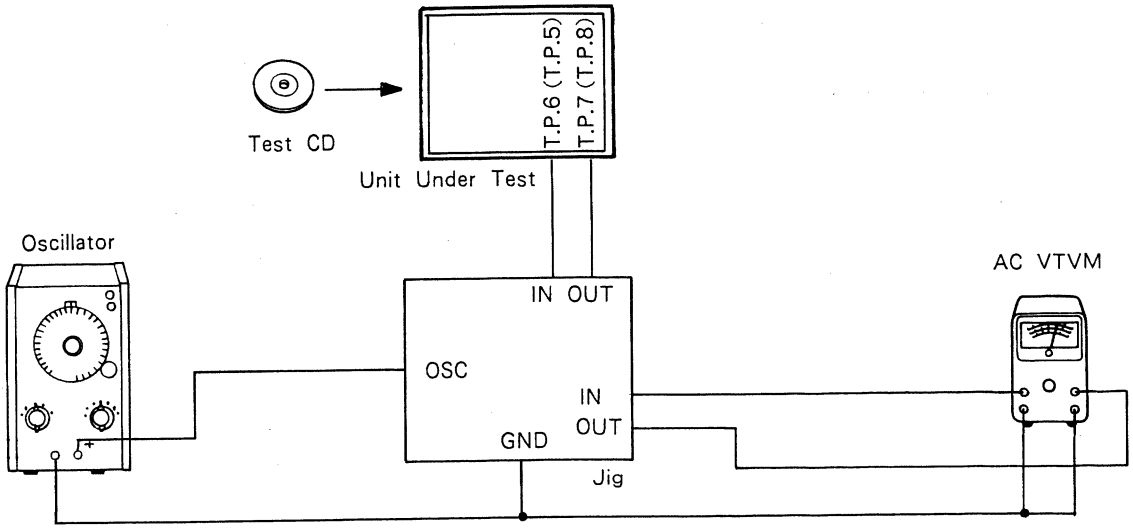


Figure 10

(2) Adjustment Procedures

Step	Description	Connection	Oscillator	Test Point	Adjustment
1	VCO Adjustment	Figure 7	–	T.P.1 T.P.2	Connect T.P.1 to ground and adjust VR1303 so that the frequency is 4.3218MHz±10kHz. (※ 1)
2	Focus Bias Adjustment	Figure 8	–	T.P.3	Adjust VR1202 for the oscilloscope waveform to show maximum.
3	Tracking Error Balance Adjustment	Figure 9	–	T.P.4 T.P.5	Shortcircuit T.P.4, turn VR1301 fully counter-clockwise and adjust VR1201 so that the voltage is 0±50mV. After adjustment set VR1301 at approximately its center position.
4	Tracking Gain Adjustment	Figure 10	1kHz 200mV	T.P.6 T.P.7	Adjust VR1302 so that two arms of the valve voltmeter just meet each other.
5	Focus Gain Adjustment	Figure 10	1kHz 200mV	T.P.5 T.P.8	Adjust VR1301 so that two arms of the valve voltmeter just meet each other.

NOTE : ※ 1 For UZ and UQ model only.
For AD model, connect two 100k ohm resistors between $+V_{DD}$ and ground of R1216 as shown in Figure 11.

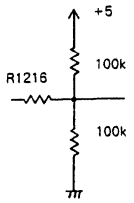
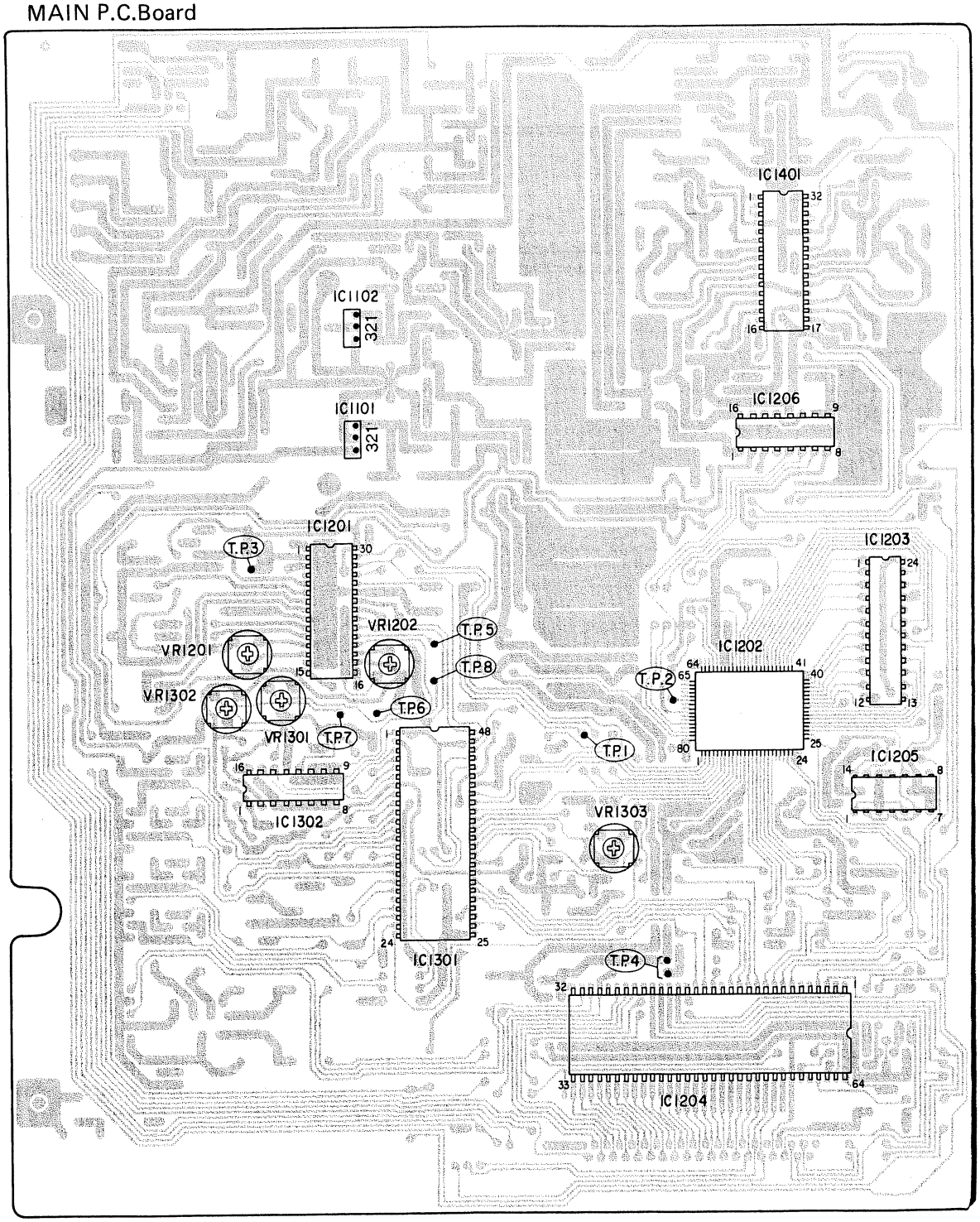


Figure 11

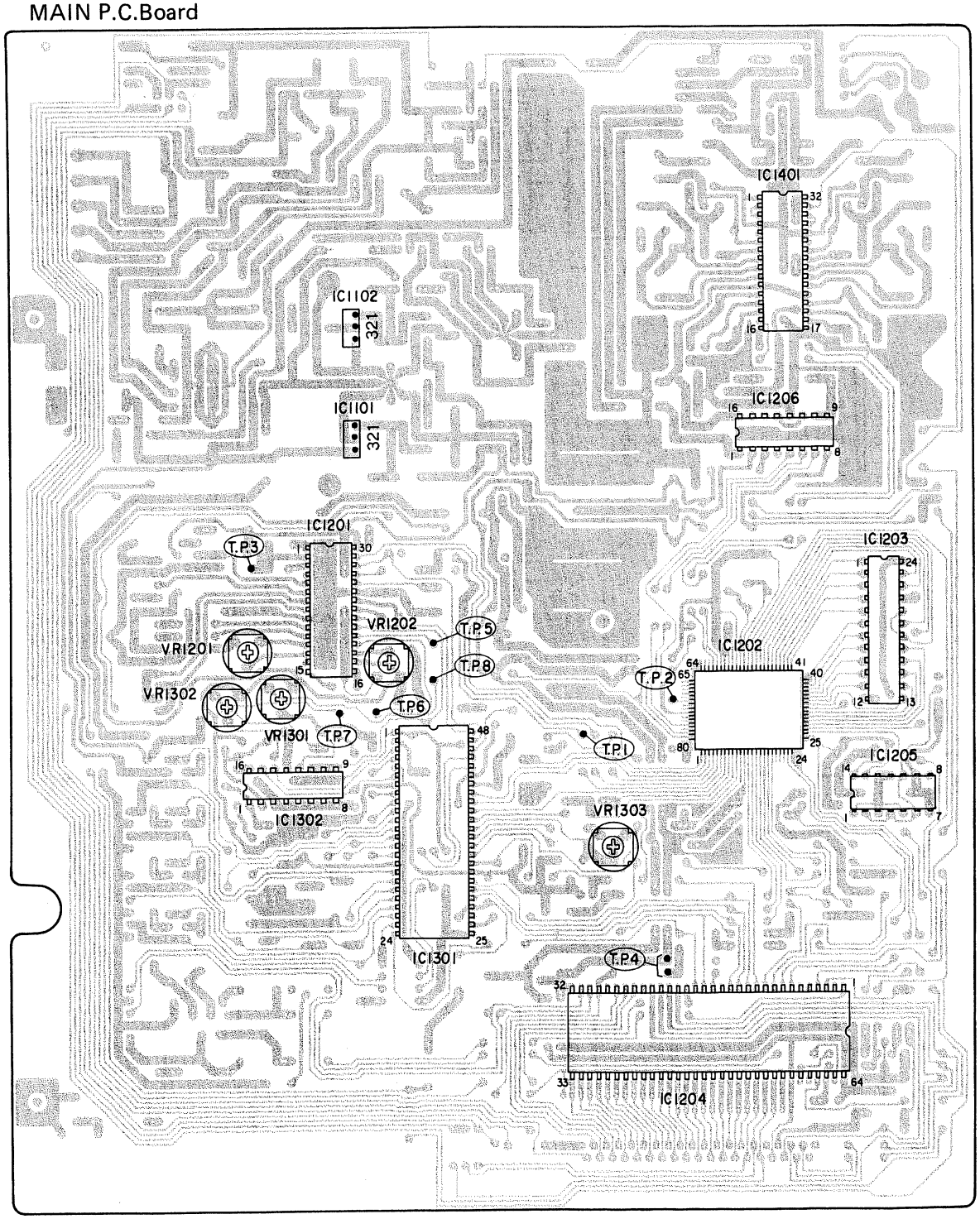
Adjustment Locations

MAIN P.C.Board



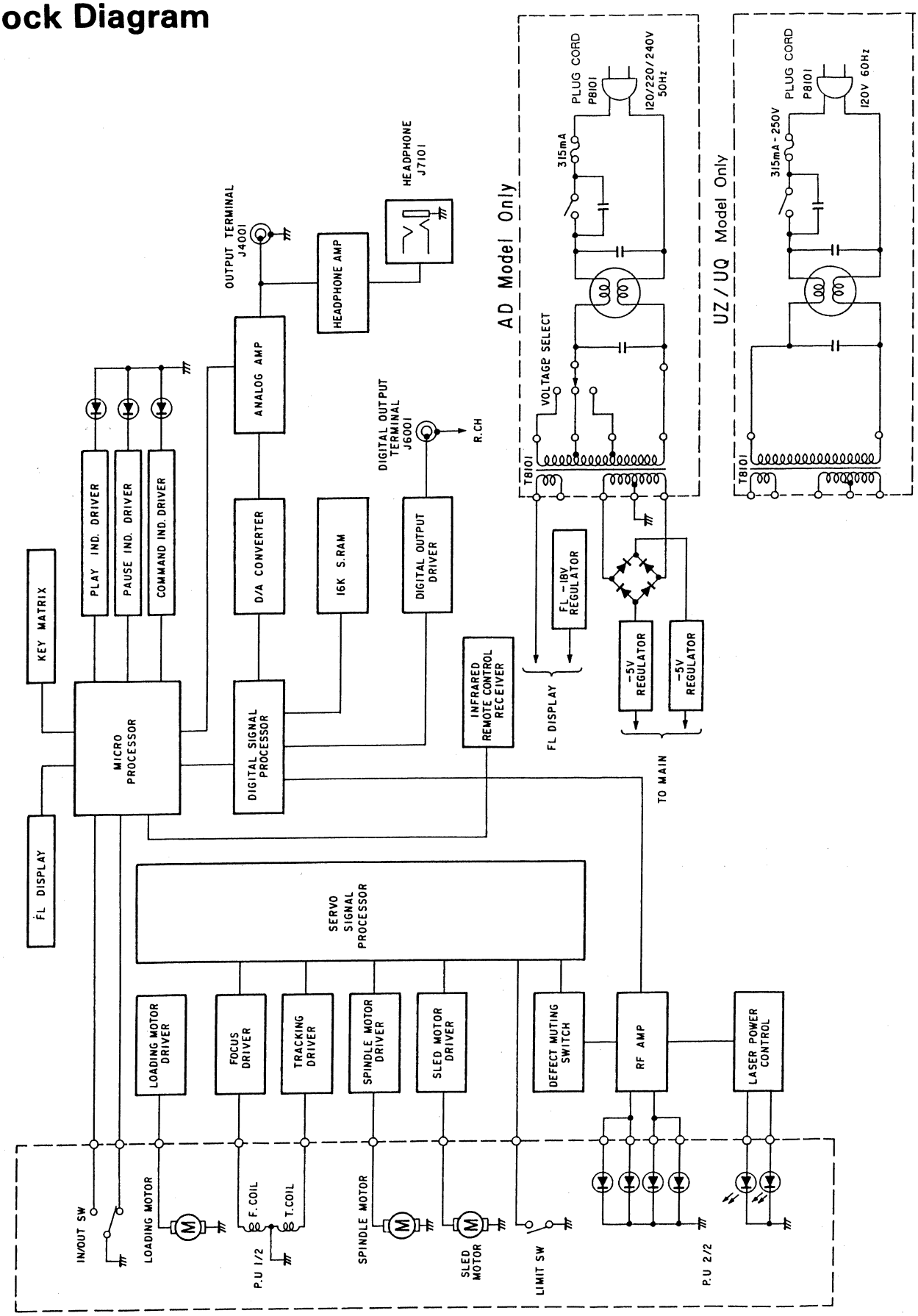
UQ and UZ model only

MAIN P.C.Board

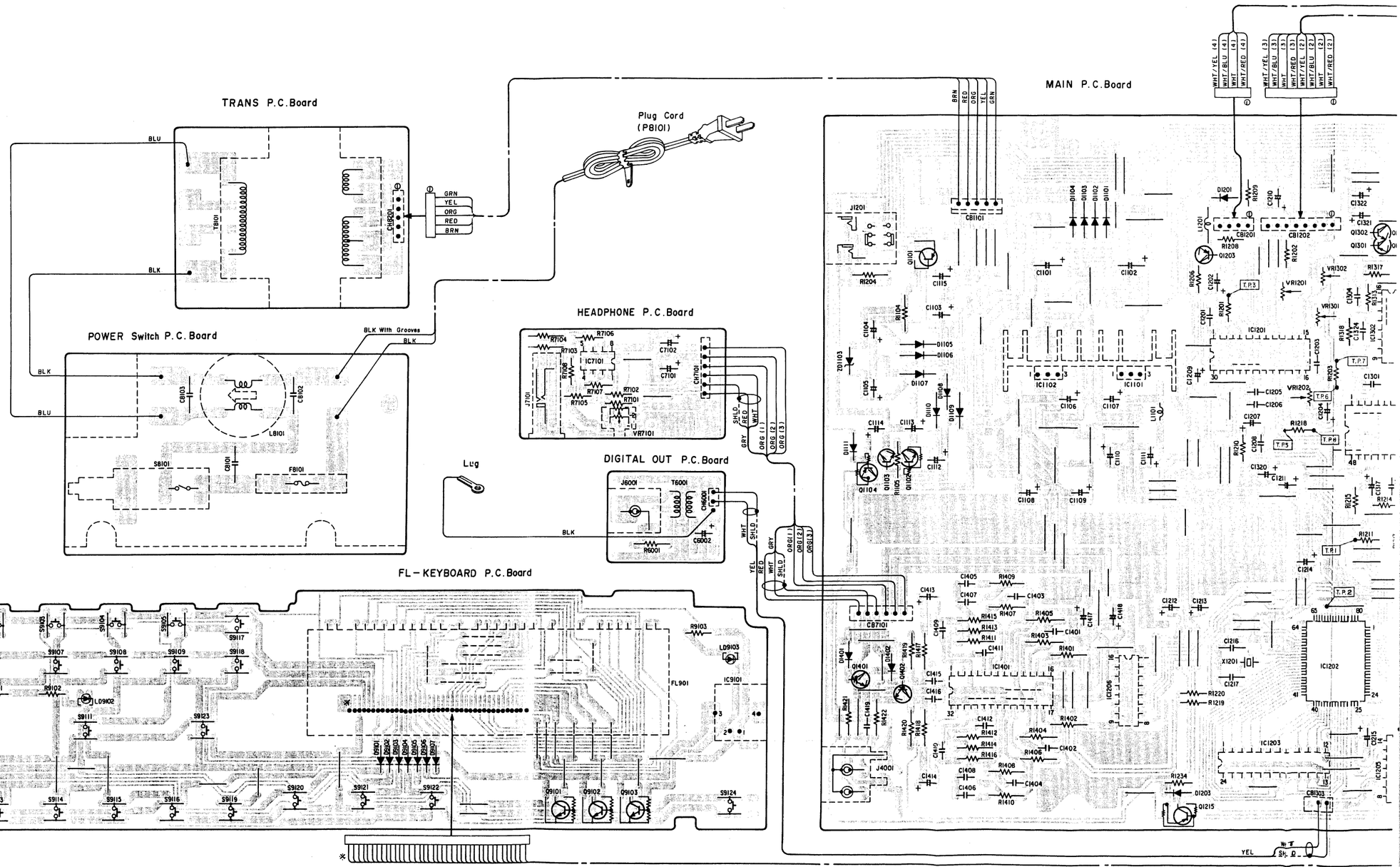


AD model only

Block Diagram

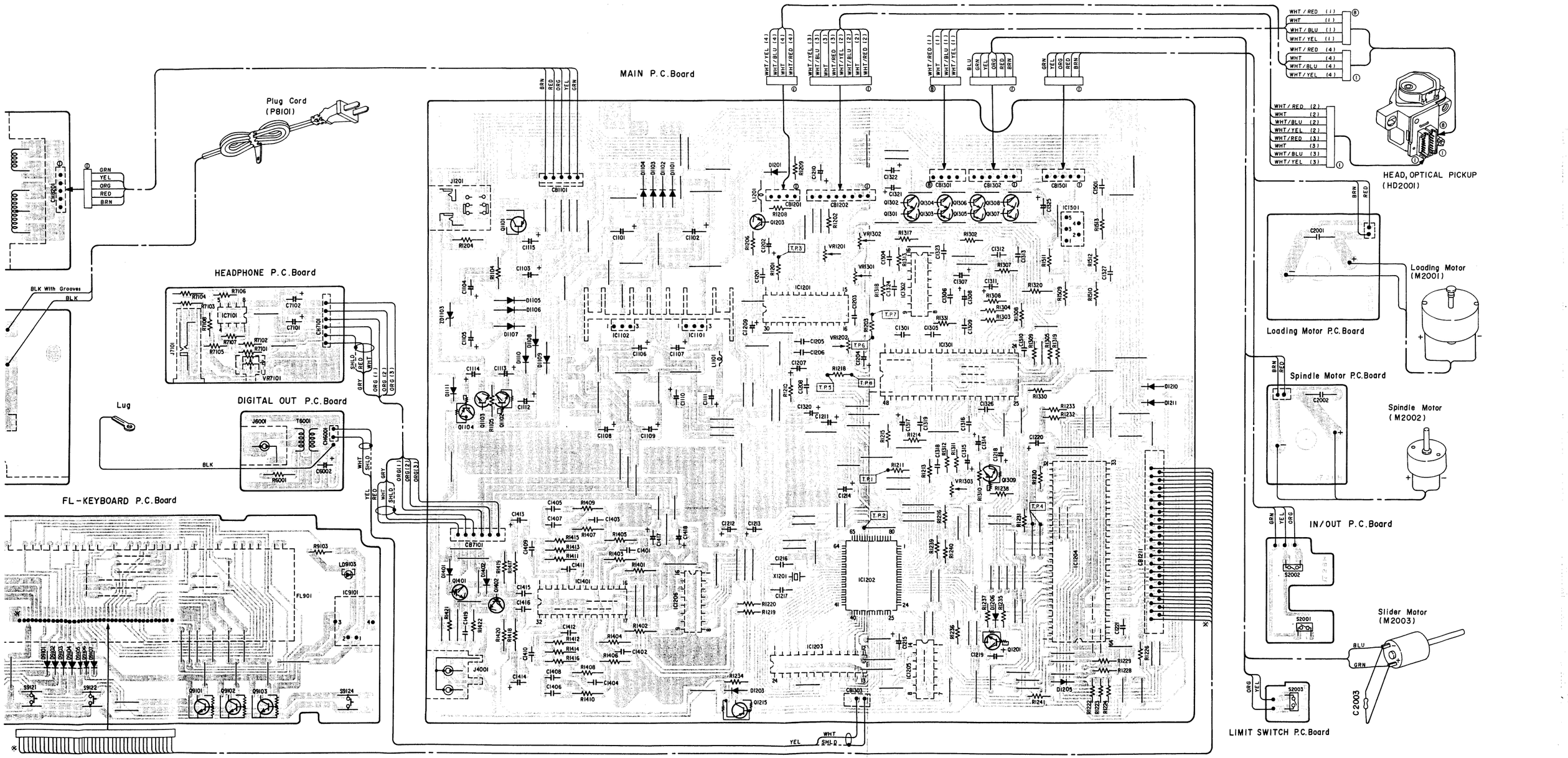


Parts Layout on P.C. Boards and Wiring Diagram (1/2) (UZ, UQ Model only)



BLU . . . . . Blue
GRN . . . . . Green
BLK . . . . . Black
GRY . . . . . Gray
WHT . . . . . White
RED . . . . . Red
BRN . . . . . Brown
ORG . . . . . Orange
YEL . . . . . Yellow
VIO. . . . . Violet
PNK . . . . . Pink
GRN/WHT. . . . . Green/White
GRY/WHT. . . . . Gray/White
GRY/YEL . . . . . Gray/Yellow
GRN/YEL . . . . . Green/Yellow
SHLD. . . . . Shield

n (1/2) (UZ, UQ Model only)



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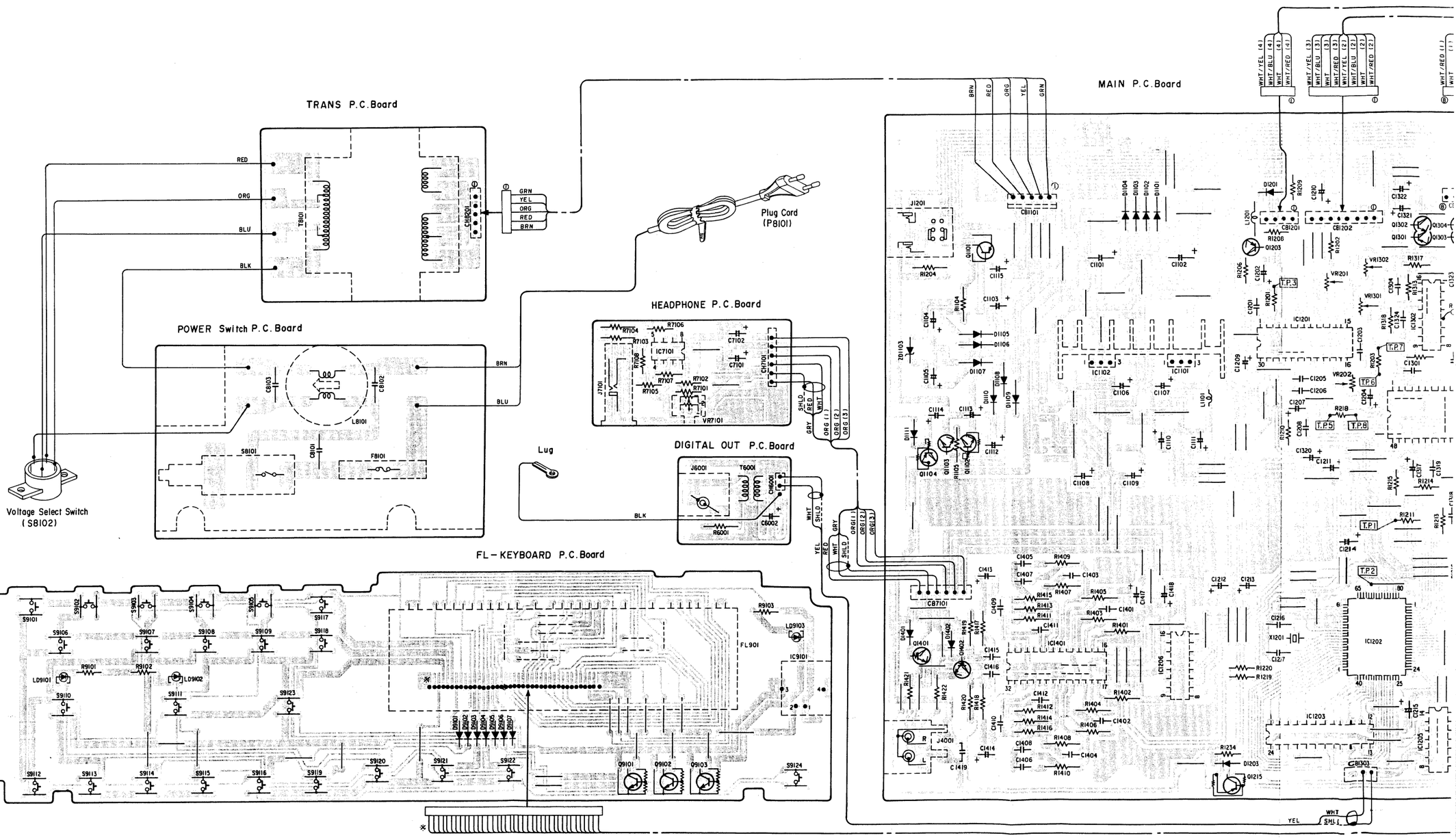
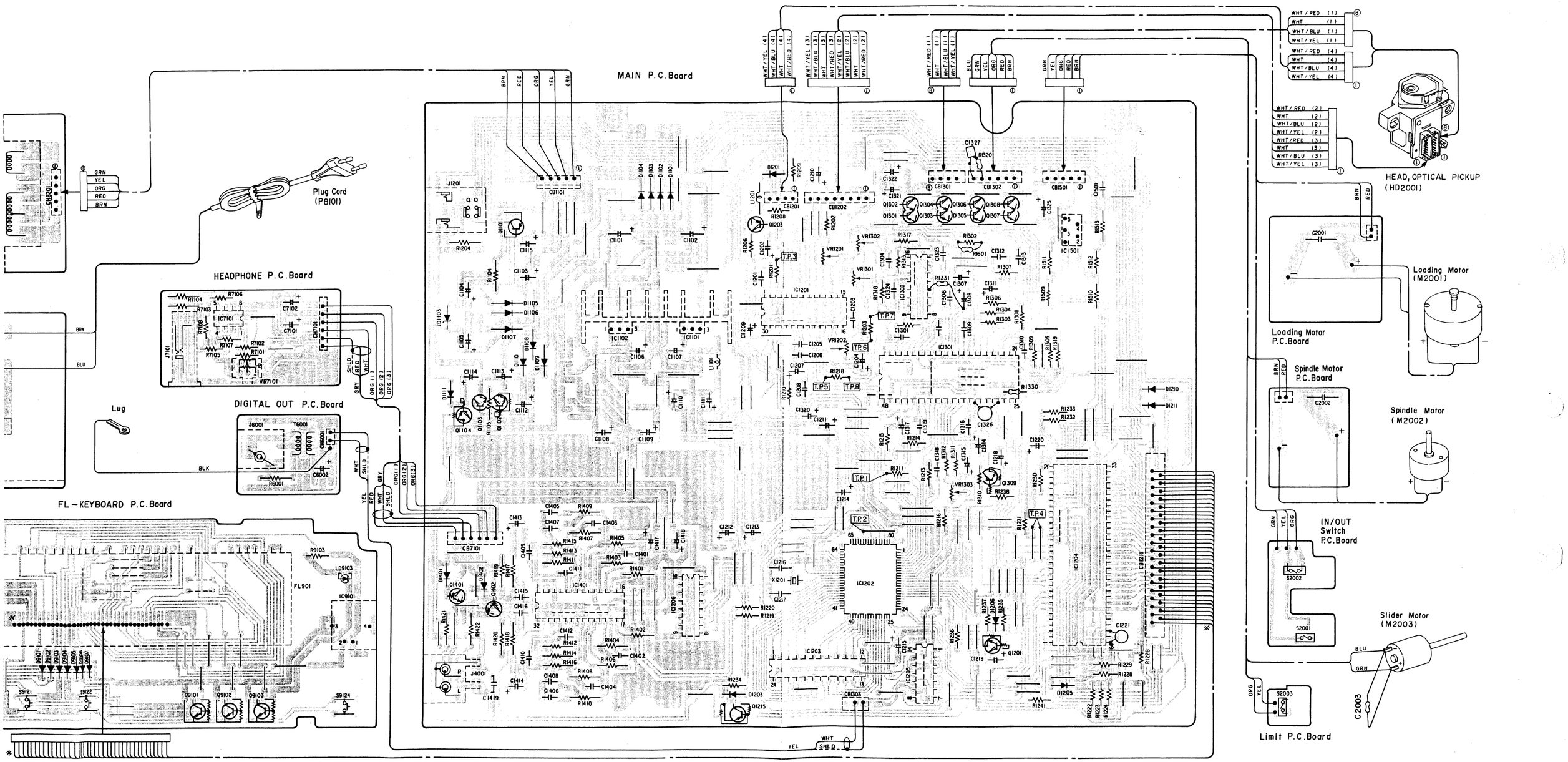
Parts Layout on P.C. Boards and Wiring Diagram (2/2) (AD Model only)

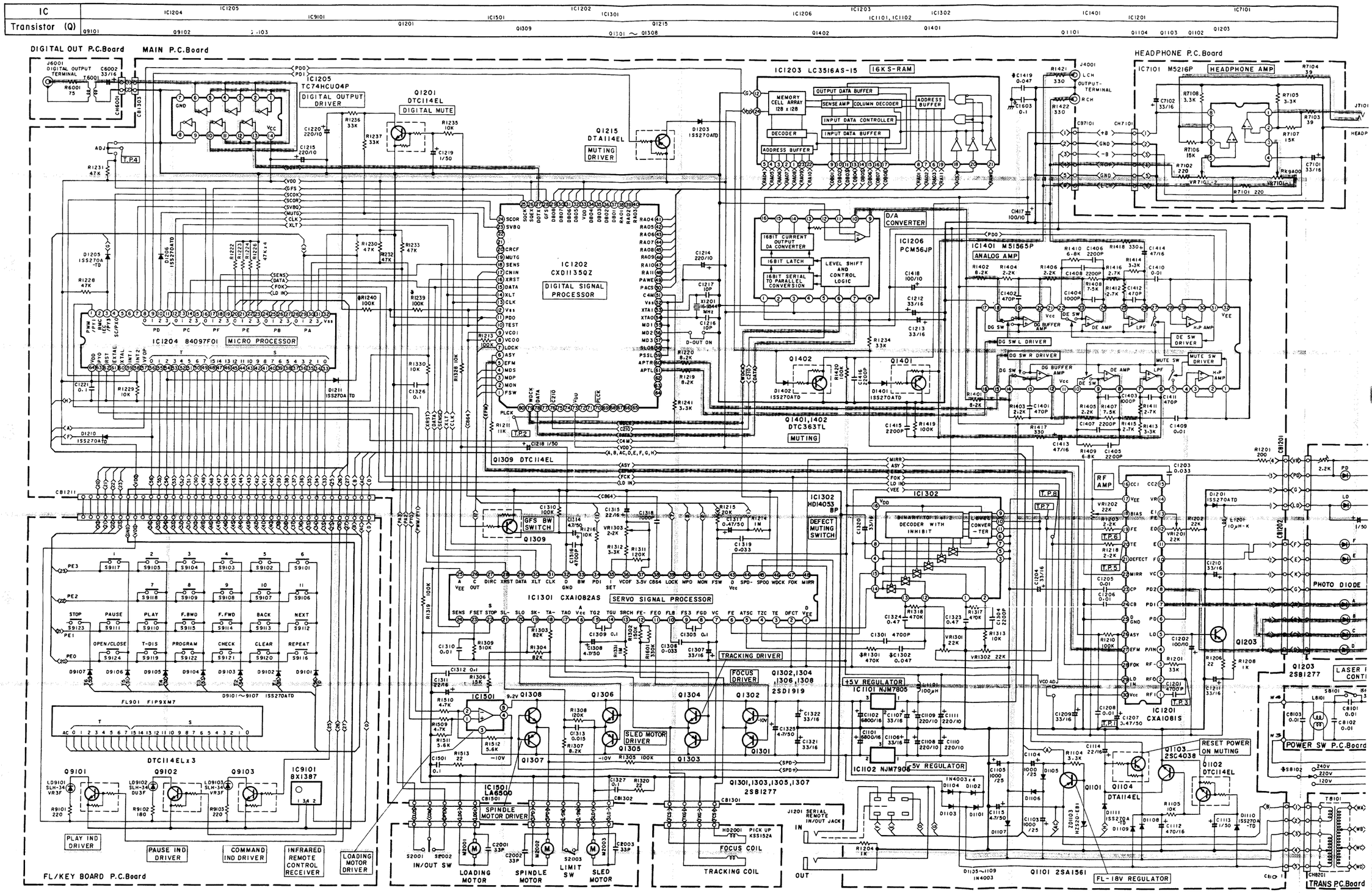


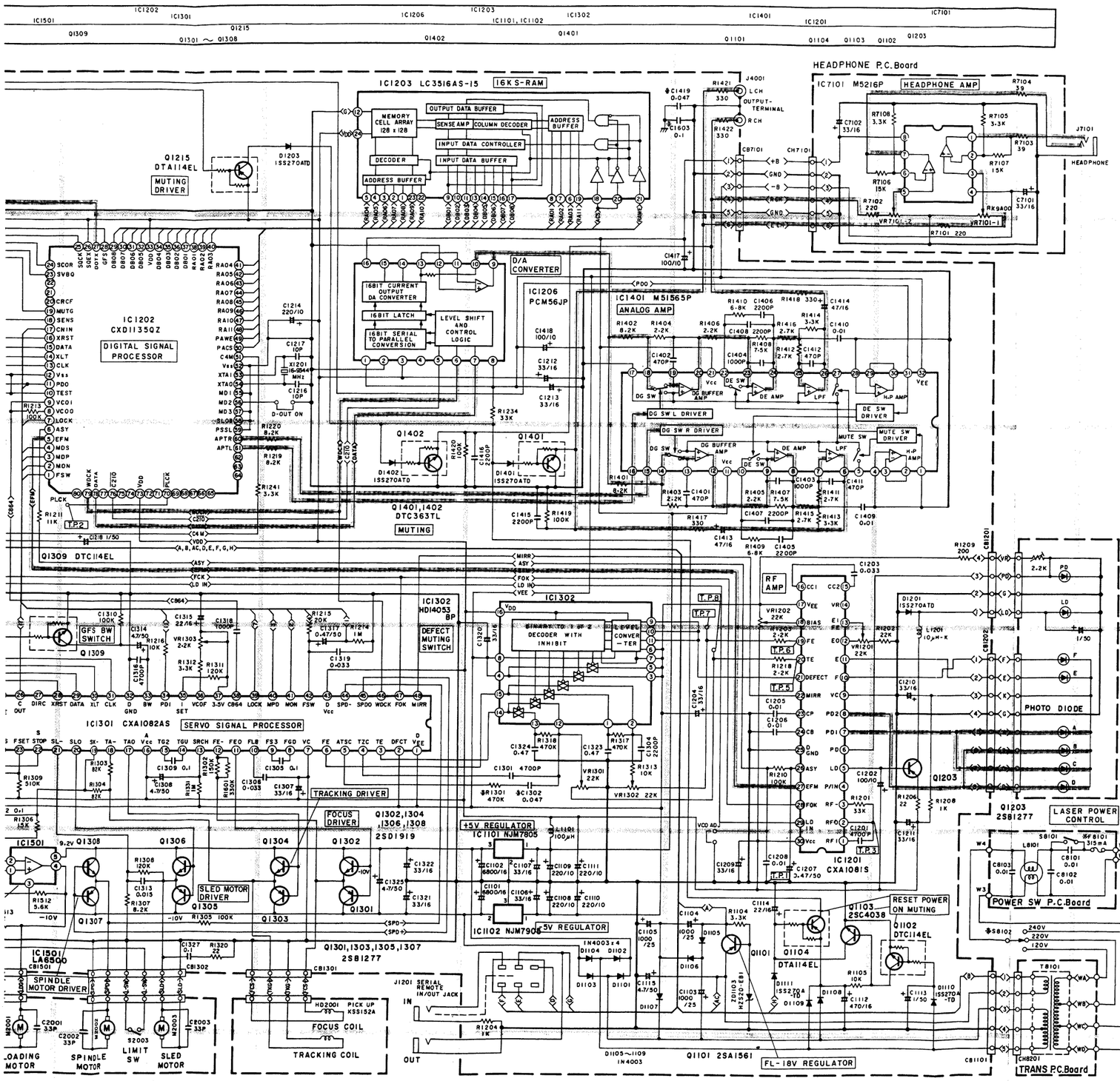
BLU . . . . . Blue
GRN . . . . . Green
BLK . . . . . Black
GRY . . . . . Gray
WHT . . . . . White
RED . . . . . Red
BRN . . . . . Brown
ORG . . . . . Orange
YEL . . . . . Yellow
VIO. . . . . Violet
PNK . . . . . Pink
GRN/WHT. . . . . Green/White
GRY/WHT. . . . . Gray/White
GRY/YEL. . . . . Gray/Yellow
GRN/YEL. . . . . Green/Yellow
SHLD. . . . . Shield

'am (2/2) (AD Model only)



Schematic Diagram





IC1201

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0V	1.2V	0V	2.5V	2.7V	-4.8V	0V	0V	0V	0V	0V	-0.5V	-0.3V	—	-2.4V
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
-2.1V	-4.9V	0V	0.1V	0V	-4.8V	0V	-1.8V	-1.3V	0V	2.4V	2.3V	4.9V	0V	4.9V

IC1202

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0	4.9V	2.4V	2.7V	2.3V	2.4V	4.9V	2.5V	0.1V	0V	—	0V	4.8V	4.9V	—	4.9V	0V
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
—	0V	—	—	—	5V	0.1V	4.9V	2.4V	0.1V	1-9V					4.9V	1.9V	0.1V	1.8V	0.1V	2.4V		
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61		
2.4V							4.3V	2.6V	2.2V	0V	—	2.2V			0V				1.2V			
62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				
—	—	—	—	—	—	—	2.3V	—	—	4.9V	—	—	2.3V	—	0V	2.4V	—						

IC1203

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2.4V			2.4V			0V				0V							2.6V	—	2.6V	4.3V	—	—	4.9V

IC1204

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0V	—	4.9V	—	—	5V	0V	4.9V	0V	4.8V	4.9V	—	—	4.9V	4.8V	—	4.9V	—		0V				
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45			
0V		4.8V	—	0.4V	4.9V	0V	-28.7V	—	—	—	—	—	4.8V	-28.4V	4.8V	-28.4V	-23.8V						
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64					
-23.9V	-28.7V	-19V	-25.3V	-25.1V						-29V	4.9V	0V	—	2.4V	4.9V	0V	4.9V						

IC1205

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2.4V			2.4V		0V	—	0V		2.4V				4.8V

IC1101

1	2	3
4.9V	0V	9V

IC1102

1	2	3
-4.9V	0V	-9V

IC1206

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
-4.9V	0V	4.9V	—	2.3V	2.4V	0V	-4.9V	0V		0V			—	—	4.9V

IC1501

1	2	3	4	5
0V	0V	-10V	0V	9.2V

IC1401

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0V				0V				4.9V		0V			1.2V		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0V		4.9V		0V				0V			0V				

IC1301

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-4.9V			0V				0.1V		0V		1V	0V	0.2V		0V		4.9V		0V		—	0V	-4.9V	-4V	—
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
-4.9V	0.1V	4.9V	—	4.9V	4.8V	0V	2.5V	2.3V	3.6V	2.4V	4.9V	2.4V	4.9V	2.5V	4.9V	0V	—	2.4V	4.9V	0V			

IC1302

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0V		-4.9V		-4.9V			-4.8V			0V					4.9V

IC9101

1	2	3	4
5V	4.9V	0V	0V

	Q1101	Q1102	Q1103	Q1104	Q1201	Q1203	Q1309	Q1402	Q9101	Q9102	Q9103
B	-18.6V	6.6V	0V	9.5V	2.7V	2.7V	0V	0V	4.8V	0V	0V
C	-29V	0V	0V	-4.9V	0V	2V	0V	0V	0V	3.5V	3.7V
E	-18V	0V	9.5V	9.7V	0V	3.4V	0V	0V	0V	0V	0V

	Q1215	Q1401	Q1301	Q1302	Q1303	Q1304
B	4.9V	0V	-10V	-10V	0V	0V
C	-4.7V	0V	-10V	9.2V	-10V	9.2V
E	0.2V	0V	0.4V	0.4V	0V	0V

Measuring Conditions.
1. Power Supply Voltage
   : 120/220/240V 50Hz (AD model only)
   : AC 120V, 60Hz (UZ, UQ model only)
2. Measuring Meter
   : Multi Voltmeter
3. Measuring Point Peference
   : Between Ground
4. Measuring Condition
   · No Signal Input
   CD in Play Condition

Model /	AD model only (■)	UZ model only (●)	UQ model only (▲)
C1302	0.047μF	Not Used	Not Used
C1419	0.047μF	0.1μF	0.1μF
C1603	0.1μF	Not Used	Not Used
S8102	Voltage Select Switch	Not Used	Not Used
R1239	Not Used	100Kohm	100Kohm
R1240	Not Used	100Kohm	100Kohm
R1301	470Kohm	Not Used	Not Used
F8101	T315mA	315mA - 250V	315mA - 250V

NOTES:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

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Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.
uF = microfarads, pF = picofarads

Abbreviations

RES. = Resistor	CAP. = Capacitor
C.F. = Carbon Film	ELY. = Electrolytic
M.F. = Metal Film	CER. = Ceramic
M.O. = Metal Oxide Film	MYL. = Mylar
M.P. = Metal Plate	TAN. = Tantalum
TR. = Transistor	POLY. = Polystyrol
TRANS. = Transformer	PP. = Polypropylene
CP. = Chip	PLT. = Polyethylene

Symbol No.	Part No.	Description
Main P. C. Board		
IC's		
IC1101	51T80338F01	NJM7805
IC1102	51T80339F01	NJM7905
IC1201	51T84721F01	CXA1081S
IC1202	51T84719F01	CXD1135QZ
IC1203	51T84723F01	LC3516AS-15
IC1204	51T84097F01	84097F01
IC1205	51T80475F01	TC74HCU04P
IC1206	51T80318F01	PCM56JP
IC1301	51T84722F01	CXA1082AS
IC1302	51T70773F02	HD14053BP
IC1401	51T84334F01	M51565P
IC1501	51T91028F01	LA6500
Transistors		
Q1101	48T82757F01	2SA1561
Q1102	48T82763F02	DTC114EL
Q1103	48T82758F01	2SC4038
Q1104	48T82762F02	DTA114EL
Q1201	48T82763F02	DTC114EL
Q1203	48T82759F01	2SB1277
Q1215	48T82762F02	DTA114EL
Q1301	48T82759F01	2SB1277
Q1302	48T83275F01	2SD1919
Q1303	48T82759F01	2SB1277
Q1304	48T83275F01	2SD1919
Q1305	48T82759F01	2SB1277
Q1306	48T83275F01	2SD1919
Q1307	48T82759F01	2SB1277
Q1308	48T83275F01	2SD1919
Q1309	48T82763F02	DTC114EL
Q1401	48T82763F31	DTC363TL
Q1402	48T82763F31	DTC363TL

Symbol No.	Part No.	Description
Diodes		
D1101	48S40477U01	IN4003
D1102	48S40477U01	IN4003
D1103	48S40477U01	IN4003
D1104	48S40477U01	IN4003
D1105	48S40477U01	IN4003
D1106	48S40477U01	IN4003
D1107	48S40477U01	IN4003
D1108	48S40477U01	IN4003
D1109	48S40477U01	IN4003
D1110	48T84758F01	1SS270ATD
D1111	48T84758F01	1SS270ATD
D1201	48T84758F01	1SS270ATD
D1203	48T84758F01	1SS270ATD
D1205	48T84758F01	1SS270ATD
D1206	48T84758F01	1SS270ATD
D1210	48T84758F01	1SS270ATD
D1211	48T84758F01	1SS270ATD
D1401	48T84758F01	1SS270ATD
D1402	48T84758F01	1SS270ATD
ZD1103	48T68697F60	Zener, HZS20EB1
Coils		
L1101	24T91064F01	Choke
L1201	24T50508F22	Inductor, 10 μ H
Crystal		
X1201	48T84727F01	AT-51 16.9344M
Jacks		
J1201	09T84124F01	Headphone Mini Plug
J4001	09T84616F01	T5855 -FA-
Capacitors		
C1101	23T00160L39	ELY., 6800 μ F/16V
C1102	23T00160L39	ELY., 6800 μ F/16V
C1103	23T81002F49	ELY., 1000 μ F/25V
C1104	23T81002F49	ELY., 1000 μ F/25V
C1105	23T81002F49	ELY., 1000 μ F/25V

Symbol No.	Part No.	Description		
C1106	23T00138L19	ELY., 33 μ F/16V		
C1107	23T00138L19	ELY., 33 μ F/16V		
C1108	23T00138L13	ELY., 220 μ F/10V		
C1109	23T00138L13	ELY., 220 μ F/10V		
C1110	23T00138L13	ELY., 220 μ F/10V		
C1111	23T00138L13	ELY., 220 μ F/10V		
C1112	23T81002F34	ELY., 470 μ F/16V		
C1113	23T00138L45	ELY., 1 μ F/50V		
C1114	23T00138L18	ELY., 22 μ F/16V		
C1115	23T00138L48	ELY., 4.7 μ F/50V		
C1201	08T57705F63	MYL., 4700pF		
C1202	23T00138L12	ELY., 100 μ F/10V		
C1203	08T57851F07	TF 0.033 μ F		
C1204	23T00138L19	ELY., 33 μ F/16V		
C1205	08T57851F01	PF 0.01 μ F		
C1206	08T57851F01	PF 0.01 μ F		
C1207	23T00138L44	ELY., 0.47 μ F/50V		
C1208	08T57851F01	PF 0.01 μ F		
C1209	23T00138L19	ELY., 33 μ F/16V		
C121	23T00138L19	ELY., 33 μ F/16V		
C1211	23T00138L19	ELY., 33 μ F/16V		
C1212	23T00138L19	ELY., 33 μ F/16V		
C1213	23T00138L19	ELY., 33 μ F/16V		
C1214	23T00138L13	ELY., 220 μ F/10V		
C1215	23T00138L13	ELY., 220 μ F/10V		
C1216	08T55260F13	CER., 10pF		
C1217	08T55260F13	CER., 10pF		
C1218	23T00138L45	ELY., 1 μ F/50V		
C1219	23T00138L45	ELY., 1 μ F/50V		
C1220	23T00138L13	ELY., 220 μ F/10V		
● C1221	08T40794F74	CER., 0.1 μ F		
■ C1221	08T57298F01	CER., 0.1 μ F		
▲ C1221	08T40794F74	CER., 0.1 μ F		
C1301	08T57705F63	MYL., 4700pF		
■ C1302	08T57851F09	TF 0.047 μ F		
C1304	08T57705F59	MYL., 2200pF		
C1305	08T57851F13	TF 0.1 μ F		
C1306	08T57851F07	TF 0.033 μ F		
C1307	23T00138L19	ELY., 33 μ F/16V		
C1308	23T00138L48	ELY., 4.7 μ F/50V		
C1309	08T57851F13	TF 0.1 μ F		
C1310	08T57851F01	PF 0.01 μ F		
C1311	23T00138L18	ELY., 22 μ F/16V		
C1312	08T57851F13	TF 0.1 μ F		
C1313	08T57851F03	PF 0.015 μ F		
C1314	23T00138L48	ELY., 4.7 μ F/50V		
C1315	23T00138L18	ELY., 22 μ F/16V		
C1316	08T57705F63	MYL., 4700pF		
C1317	23T00138L44	ELY., 0.47 μ F/50V		
C1318	08T57705F55	MYL., 1000pF		

Symbol No.	Part No.	Description		
C1319	08T57851F07	TF 0.033 μ F		
C1320	23T00138L19	ELY., 33 μ F/16V		
C1321	23T00138L19	ELY., 33 μ F/16V		
C1322	23T00138L19	ELY., 33 μ F/16V		
C1323	08T50579F21	TF 0.47 μ F		
C1324	08T50579F21	TF 0.47 μ F		
C1325	23T00138L48	ELY., 4.7 μ F/50V		
● C1326	08T40794F74	CER., 0.1 μ F		
■ C1326	08T57298F01	CER., 0.1 μ F		
▲ C1326	08T40794F74	CER., 0.1 μ F		
● C1327	08T57851F13	TF 0.1 μ F		
■ C1327	08T42629F29	MYL., 0.1 μ F		
▲ C1327	08T57851F13	TF 0.1 μ F		
C1401	08T57705F51	MYL., 470pF		
C1402	08T57705F51	MYL., 470pF		
C1403	08T57705F55	MYL., 1000pF		
C1404	08T57705F55	MYL., 1000pF		
C1405	08T57705F59	MYL., 2200pF		
C1406	08T57705F59	MYL., 2200pF		
C1407	08T57705F59	MYL., 2200pF		
C1408	08T57705F59	MYL., 2200pF		
C1409	08T57851F01	PF 0.01 μ F		
C1410	08T57851F01	PF 0.01 μ F		
C1411	08T57705F51	MYL., 470pF		
C1412	08T57705F51	MYL., 470pF		
C1413	23T00138L20	ELY., 47 μ F/16V		
C1414	23T00138L20	ELY., 47 μ F/16V		
C1415	08T57705F59	MYL., 2200pF		
C1416	08T57705F59	MYL., 2200pF		
C1417	23T00138L12	ELY., 100 μ F/10V		
C1418	23T00138L12	ELY., 100 μ F/10V		
● C1419	08T40794F74	CER., 0.1 μ F		
■ C1419	08T40794F70	CER., 0.047 μ F		
▲ C1419	08T40794F74	CER., 0.1 μ F		
C1501	08T57851F13	TF 0.1 μ F		
■ C1603	08T57298F01	CER., 0.1 μ F		

Resistors

VR1201	18C41732G08	Variable, 22K ohm B		
VR1202	18C41732G08	Variable, 22K ohm B		
VR1301	18C41732G08	Variable, 22K ohm B		
VR1302	18C41732G08	Variable, 22K ohm B		
VR1303	18B44064J08	Variable, 2.2K ohm B 1/2W		

Notes : ● : For North American model only (UZ), ■ : For West Germany model only (AD),
▲ : For Canadian model only (UQ), Others : Common.

Symbol No.	Part No.	Description		
Head Phone P. C. Board				
IC/Jack				
IC7101	51T81896F01	M5216P		
J7101	09T74077F01	Jack, Phones		
Capacitors				
C7101	23T00138L19	ELY., 33 μ F/16V		
C7102	23T00138L19	ELY., 33 μ F/16V		
Power Switch P. C. Board				
Coil/Switch				
L8101	24T82315F01	160mH		
S8101	40T84122F01	Switch, Power Sddle		
Capacitors				
C8101	08T57437F09	CER., 0.01 μ F		
C8102	08T57437F09	CER., 0.01 μ F		
C8103	08T57437F09	CER., 0.01 μ F		
FL/Keyboard P. C. Board				
IC				
IC9101	51T84120F01	BX1387		
Transistors				
Q9101	48T82763F02	DTC114EL		
Q9102	48T82763F02	DTC114EL		
Q9103	48T82763F02	DTC114EL		
Diodes				
D9101	48T84758F01	1SS270ATD		
D9102	48T84758F01	1SS270ATD		
D9103	48T84758F01	1SS270ATD		
D9104	48T84758F01	1SS270ATD		
D9105	48T84758F01	1SS270ATD		

Symbol No.	Part No.	Description		
D9106	48T84758F01	1SS270ATD		
D9107	48T84758F01	1SS270ATD		
LD9101	48T60947F05	LED, SLH-34VR3F (RED)		
LD9102	48T60947F07	LED, SLH-34DU3F (ORG)		
LD9103	48T60947F05	LED, SLH-34VR3F (RED)		
Switches				
S9101	40T83324F01	Tact, SKHHAP (6)		
S9102	40T83324F01	Tact, SKHHAP (5)		
S9103	40T83324F01	Tact, SKHHAP (4)		
S9104	40T83324F01	Tact, SKHHAP (3)		
S9105	40T83324F01	Tact, SKHHAP (2)		
S9106	40T83324F01	Tact, SKHHAP (+10)		
S9107	40T83324F01	Tact, SKHHAP (10)		
S9108	40T83324F01	Tact, SKHHAP (9)		
S9109	40T83324F01	Tact, SKHHAP (8)		
S9110	40T83324F01	Tact, SKHHAP (PLAY)		
S9111	40T83324F01	Tact, SKHHAP (PAUSE)		
S9112	40T83324F01	Tact, SKHHAP (NEXT)		
S9113	40T83324F01	Tact, SKHHAP (BACK)		
S9114	40T83324F01	Tact, SKHHAP (F.FWD)		
S9115	40T83324F01	Tact, SKHHAP (F.BWD)		
S9116	40T83324F01	Tact, SKHHAP (REPEAT)		
S9117	40T83324F01	Tact, SKHHAP (1)		
S9118	40T83324F01	Tact, SKHHAP (7)		
S9119	40T83324F01	Tact, SKHHAP (T-DISPLAY)		
S9120	40T83324F01	Tact, SKHHAP (CLEAR)		
S9121	40T83324F01	Tact, SKHHAP (CHECK)		
S9122	40T83324F01	Tact, SKHHAP (PROGRAM)		
S9123	40T83324F01	Tact, SKHHAP (STOP)		
S9124	40T83324F01	Tact, SKHHAP (OPEN/CLOSE)		
Digital Out P. C. Board				
Trans/Capacitor				
T6001	25T90530F01	Trans Puls		
C6002	23T00138L19	CAP., ELY., 33 μ F/16V		

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Others : Common.

Symbol No.	Part No.	Description		
		Miscellaneous		
	C2001	08S40154T43	CAP., CER., 330pF	
	C2002	08S40154T43	CAP., CER., 330pF	
	C2003	08S40154T43	CAP., CER., 330pF	
●	F8101	65T66926F09	Fuse, 51NM (315mA-250V)	
■	F8101	65T42077U11	Fuse, Semko, T315mA	
▲	F8101	65T66926F09	Fuse, 51NM (315mA-250V)	
	FL9101	65T83067F01	FL, Display	
	HD2001	88T81528F01	Head, Optical Pickup	
	J6001	09T84775F02	Jack, Plate Phono	
	M2001	01V81800F56	Assy., Motor Loading	
	M2002	59T81431F01	Motor, Spindle	
	M2003	59T81432F01	Motor, Slider	
●	P8101	28T70972F01	Plug, Cord	
■	P8101	28T43812P04	Plug, Cord	
▲	P8101	28T70972F01	Plug, Cord	
	S2001	40T71025F01	Switch, Detector (IN/OUT)	
	S2002	40T71025F01	Switch, Detector (IN/OUT)	
	S2003	40T71025F01	Switch, Detector (LIMIT)	
■	S8102	40T80258F02	Switch, Voltage Select	
●	T8101	25T90679F01	Trans, Power	
■	T8101	25T90678F01	Trans, Power	
▲	T8101	25T93282F01	Trans, Power	
	VR7101	18T84123F01	Volume, Variable, RK9A00	

Symbol No.	Part No.	Description		

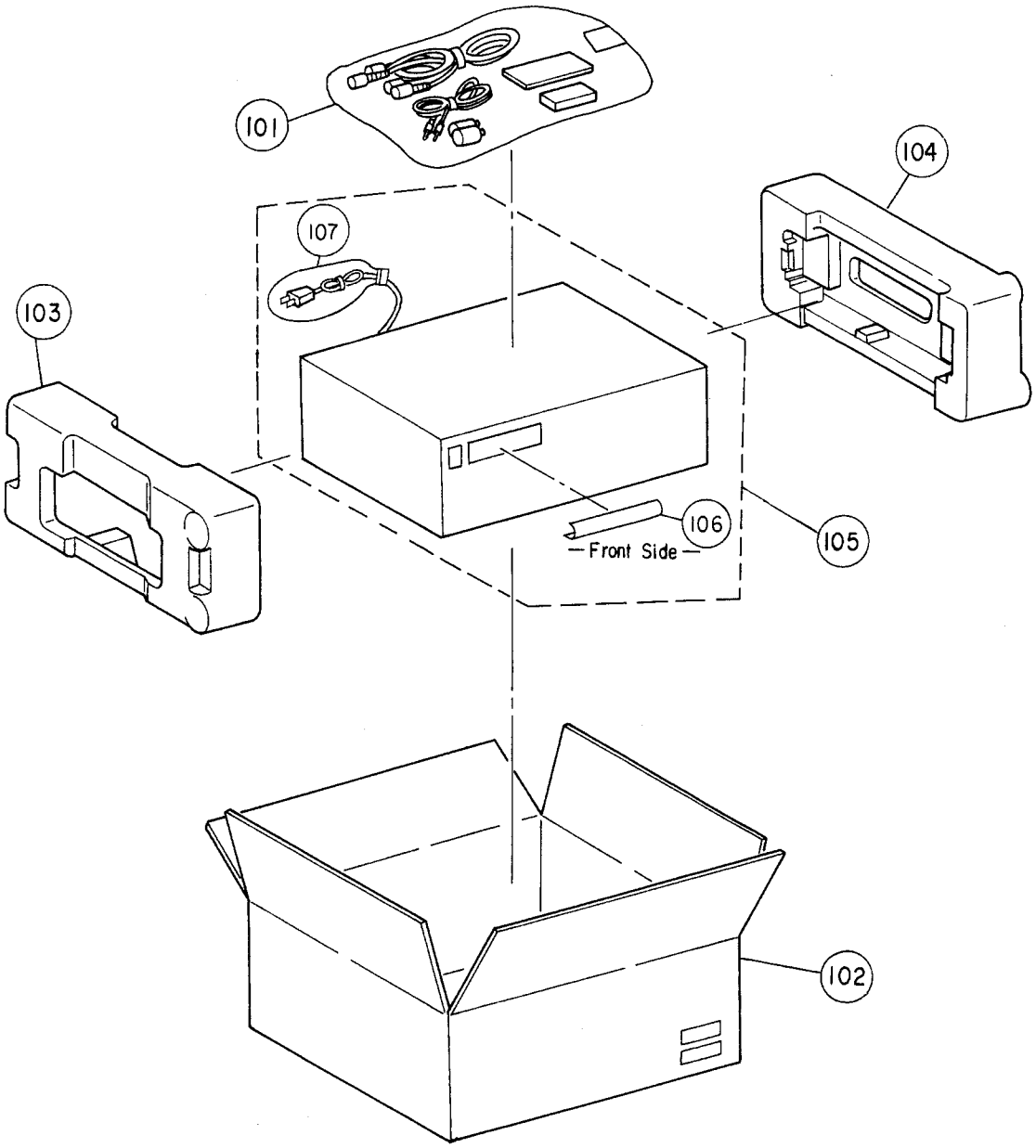
Notes : ● : For North American model only (UZ), ■ : For West Germany model only (AD),
▲ : For Canadian model only (UQ), Others : Common.

Packing Method View

Symbol No.	Part No.	Description		
101-1	68P81707F78	Owners, Manual		
101-2	28T70621F03	Plug, Output		
101-3	01T82091F01	Assy., Mini Plug Cord		
101-4	01T90545F01	Unit, Remocon RD113		
101-5	60T51756F01	Battery, UM-4MC		

Symbol No.	Part No.	Description		
102	56S83833F02	Carton, Packing		
103	56D90648F01	Tray, Packing		
104	56D90649F01	Tray, Packing		
105	56B40230G23	Sack, Polyethylene		
106	56B40442T19	Front Frame Packing		
107	56B40230G08	Sack, Polyethylene		

Packing Method View



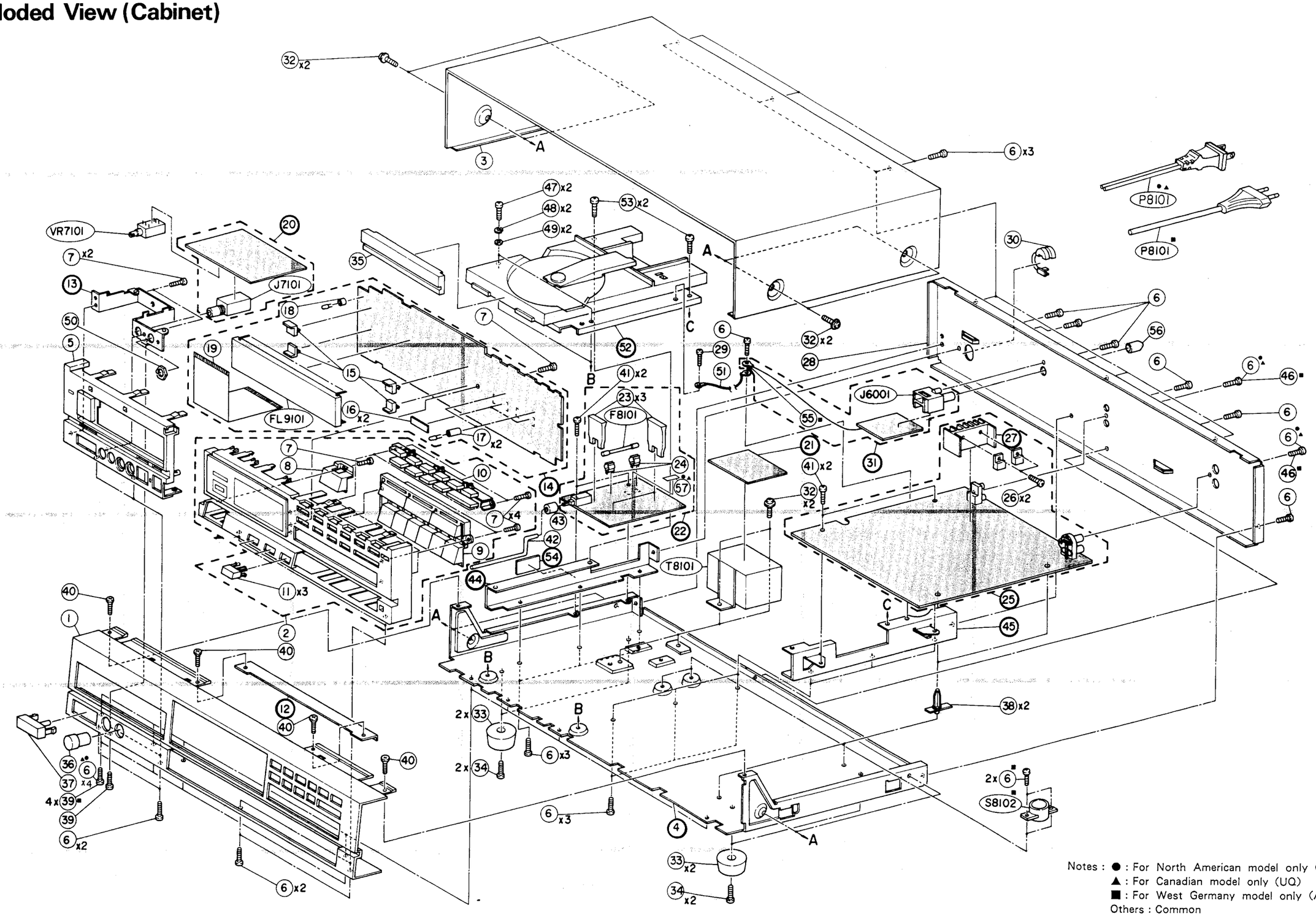
Cabinet Assembly Parts List

NOTE : The parts without part numbers are not supplied.

Symbol No.	Index	Part No.	Description
1	4-A	64D83886F01	Panel, Front
2	4-B	07C91018F01	Assy., Front Frame
3	1-D	15C83872F01	Cover, Top
5	5-E	07D83863F02	Frame, Front
6		03S71031F04	Screw, Bind (M3x8)
7		03S71031F02	Screw, Bind (M2.6x8)
8	3-B	36B83866F01	Knob, Eject
9	4-D	36B83865F01	Knob, Logic
10	3-D	36B83864F01	Knob, Ten Key
11	4-B	36A83868F01	Knob, Tact (L)
15	3-C	07A83876F01	Support, FL
16	3-C	14S81481F57	Insulator, Cover
17	3-D	43A53357F04	Spacer, LED
18	2-B	43A53357F01	Spacer, LED A
19	3-B	30T90290F01	Wire, Parallel 39P
23	3-D	43T53136F01	Bushing, Cap
24	3-E	09T51410F01	Holder, Fuse
● 26	3-G	03C40121T05	Screw, W/Double Washer (M3×8)
■ 26	3-G	03S52360F18	Screw, Bind (M3x8)
▲ 26	3-G	03C40121T05	Screw, W/Double Washer (M3×8)
● 28	3-F	15C83873F03	Cover, Rear
■ 28	3-F	15C83873F01	Cover, Rear
▲ 28	3-F	15C83873F11	Cover, Rear
29	3-E	03S44205G30	Cover, Pan (M2.6x4)
30	2-G	43B41625J02	Support, Cord
32		03S40036U01	Screw, W/Washer (M4x8)
33		75A52969F01	Pad, Tran-Leg
34		03S44205G20	Screw, Pan (M4x12)
35	2-C	64B83869F01	Panel, Tray
36	5-A	36A55234F04	Knob, Control
37	5-A	36A83870F01	Knob, Power
38	5-G	07A91046F01	Support, PCB
39		03S82672F18	Screw, Bind (M3x6)
40		03S40012G98	Screw, Tapping (M3x8)
41		03S40018G08	Screw, Tapping (M3x8)
42	4-D	47A83883F01	Shaft, Power
43	4-D	43A83885F01	Spacer, Rubber
■ 46		03S40012G48	Screw, Tapping (M3x6)
47	2-D	03A83946F01	Screw, Special (M3x35)
48	2-D	04S40071G14	Washer, Spring Lock (M4.1)
49	2-D	04S40070G59	Washer, Flat (M4.1)
50	2-A	02S40000G39	Nut, Hex (M7)
51	3-E	01T84733F11	Assy., Lug Wire
53	2-D	03S40018G06	Screw, Tapping (M3x16)
■ 55	3-F	01T92973F01	Assy., Lug Wire 1P
56	2-H	16T82537F01	Cap., Pin Jack
● 57	3-E	54B62266F55	Label, Fuse (315mA-250V)
▲ 57	3-E	54B62266F55	Label, Fuse (315mA-250V)

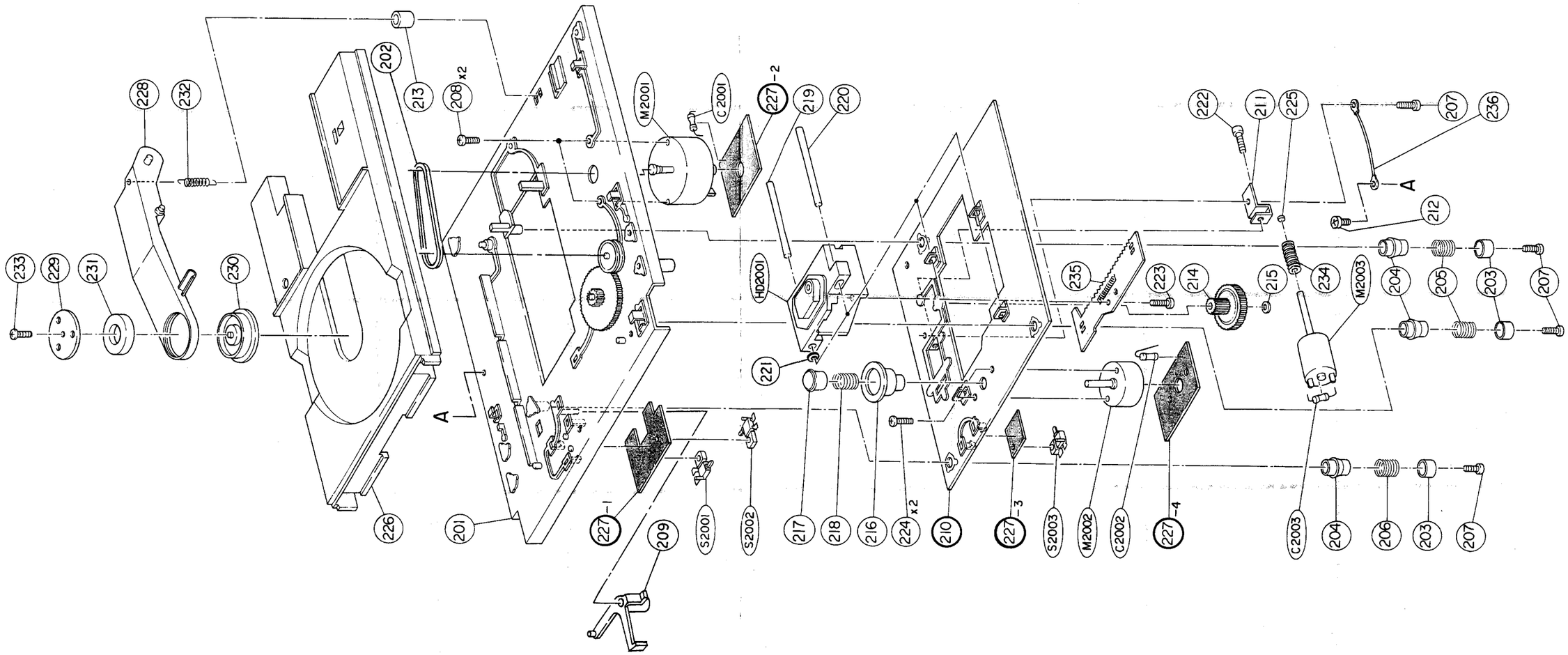
Notes : ● : For North American model only (UZ),
▲ : For Canadian model only (UQ),
■ : For West Germany model only (AD),
Others : Common.

Exploded View (Cabinet)



Notes : ● : For North American model only (UZ)
▲ : For Canadian model only (UQ)
■ : For West Germany model only (AD)
Others : Common

Exploded View (CD Mechanism)



CD Mechanism Assembly Parts List

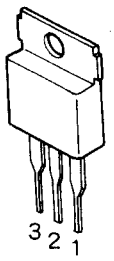
Symbol No.	Index	Part No.	Description
201	5-C	01B82391F01	Assy., Main Chassis
202	2-D	42A81427F01	Belt, Drive
203		43A81407F01	Bushing, Damper
204		75A81411F01	Rubber, Damper
205	3-H	41A81428F03	Spring, Compresion
206	5-H	41A81428F05	Spring, Compression
207		03S40012G18	Screw, Tapping (M2.6×6)
208	2-C	03D40014G19	Screw, W/Washer (M2.6×5)
209		45A81434F01	Arm, Switch
211	3-G	07A82322F01	Bracket, Washer
212	3-I	03S44205G30	Screw, Pan (M2.6×4)
213	2-C	37S40133J16	Tube UL (20mm)
214	3-G	44A81401F01	Gear, Worm Wheel
215	3-G	04A41345P02	Washer, Lock (M1.7)
216	5-E	49B81414F01	Table, Disc
217	5-E	49B81417F01	Disc, Guide
218	5-E	41A81428F01	Spring, Compression
219	2-E	47A81426F01	Shaft, Head
220	2-E	47A81426F02	Shaft, Head
221		04S40075G12	Washer, Polyslider (M3.1)
222	3-G	03D40014G61	Screw, W/Washer (M2×5)
223	3-G	03S70494F01	Screw, Bind (M2×5)
224	5-E	03D40014G07	Screw, W/Washer (M2×4)
225	3-G	43A41182P02	Ball Steel
226	5-C	01C81529F01	Assy., Tray Disc
228	2-A	45C81418F01	Arm, Clamp
229	3-A	07A81413F01	Bracket, Magnet
230	3-B	49A81403F01	Wheel, Clamp
231	3-A	59T81430F01	Magnet
232	2-B	41B81429F02	Spring, Extension
233	3-A	03S68555F17	Screw, Bind (M2×4)
234	3-G	44A81424F01	Worm, Drive
235	3-F	01A82323F01	Assy., Rack
236	3-H	01T92483F01	Assy., Lug Wire 1P

Symbol No.	Index	Part No.	Description

NOTE : The parts without part numbers are not supplied.

Semi-Conductor Lead Identifications

NJM7805 : IC1101



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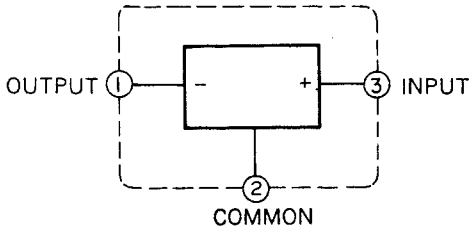

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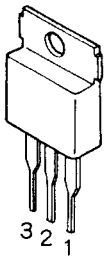

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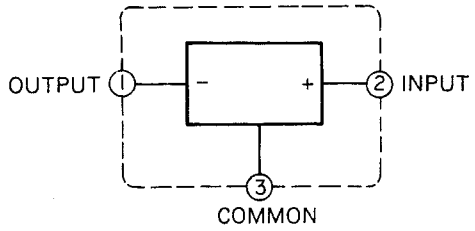

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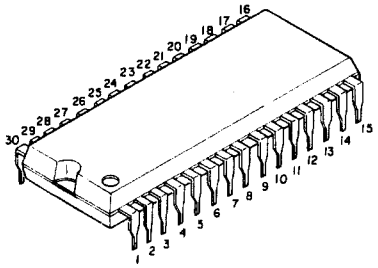

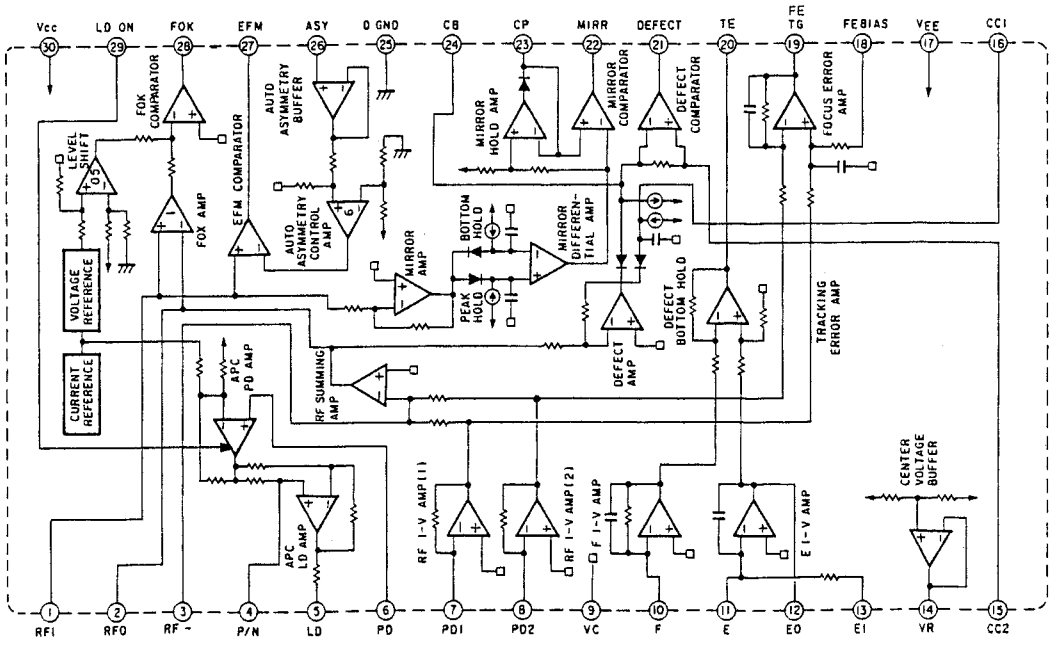

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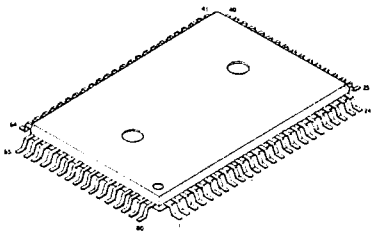

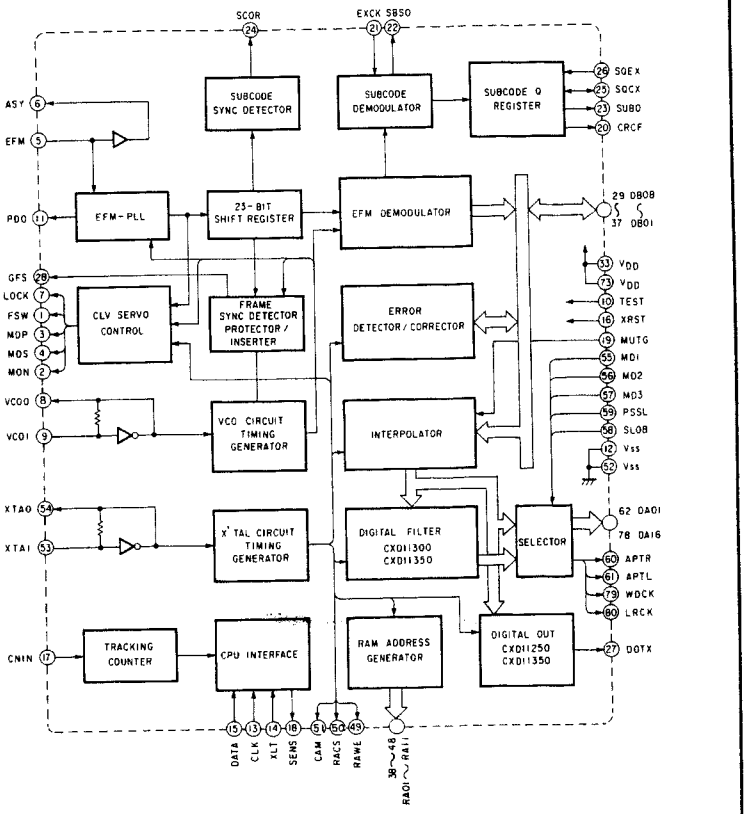

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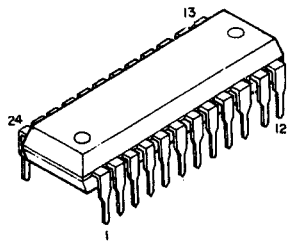
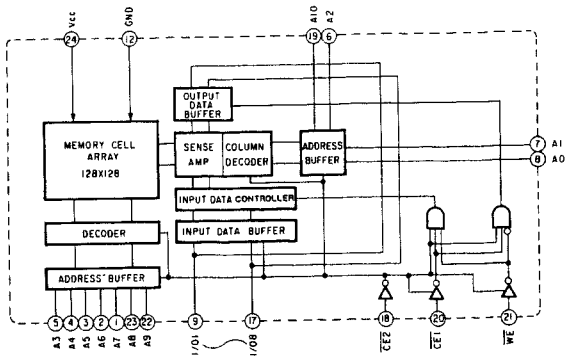
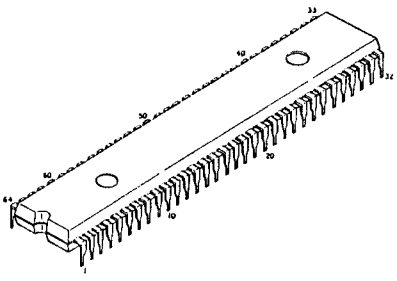
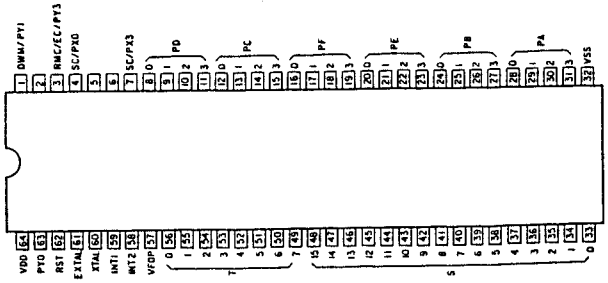


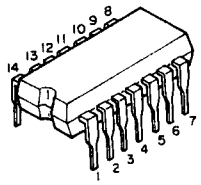


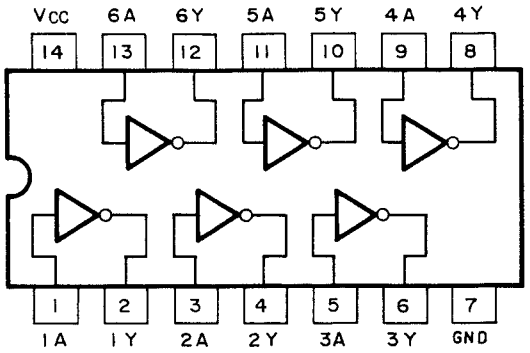
84097F01 : IC1204



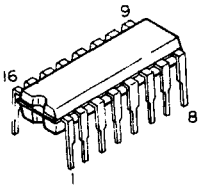


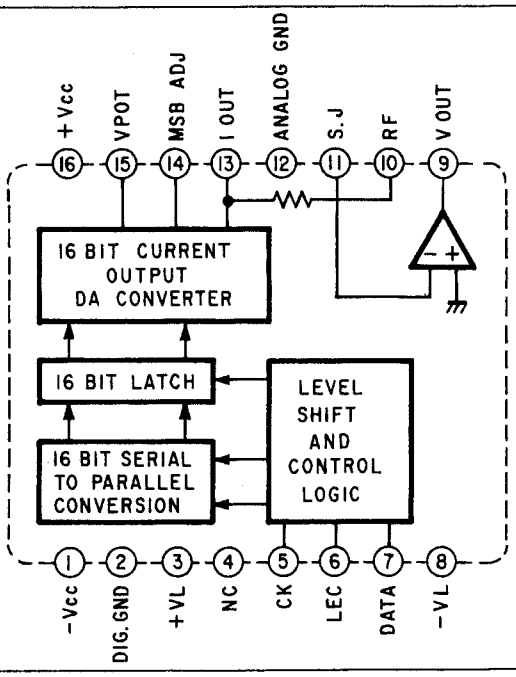
TC74HCU04P : IC1205



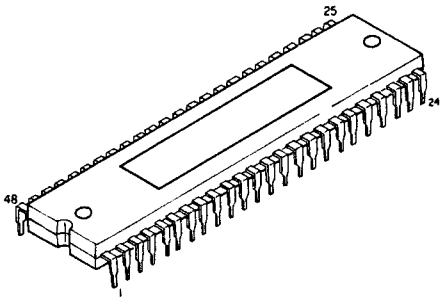


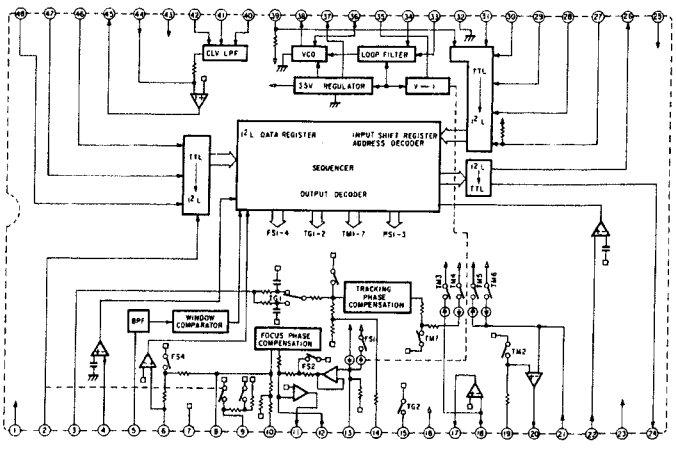
PCM56JP : IC1206



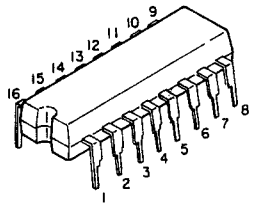

+Vcc VPOT MSB ADJ I OUT ANALOG GND S.J RF V OUT
16 15 14 13 12 11 10 9
16 BIT CURRENT OUTPUT DA CONVERTER
16 BIT LATCH
16 BIT SERIAL TO PARALLEL CONVERSION
LEVEL SHIFT AND CONTROL LOGIC
1 2 3 4 5 6 7 8
-Vcc DIG. GND +VL NC CK LEC DATA -VL

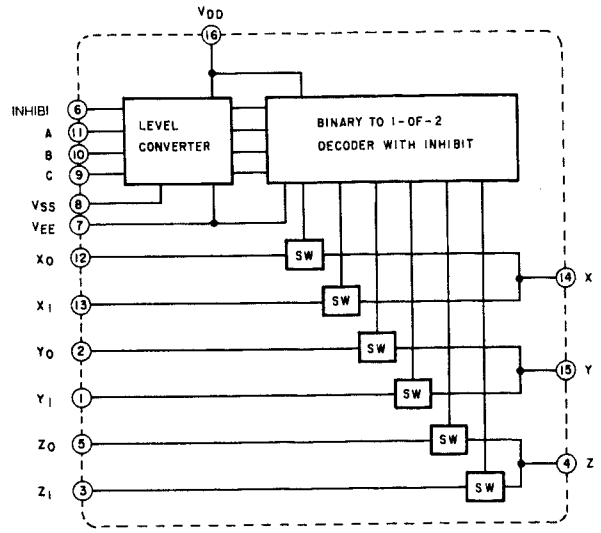
CXA1082AS : IC1301



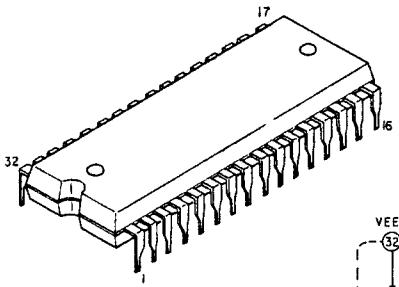


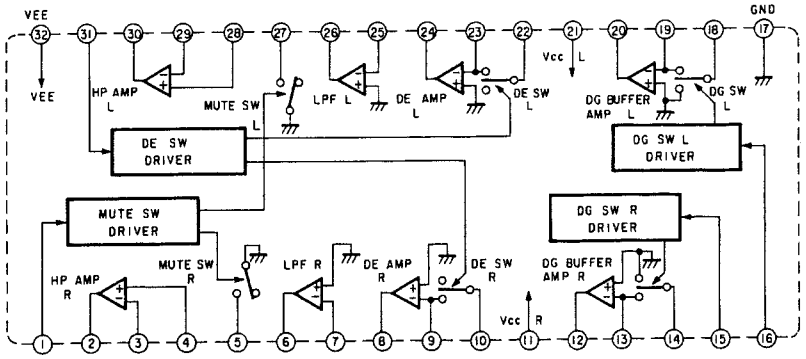
HD14053BP : IC1302



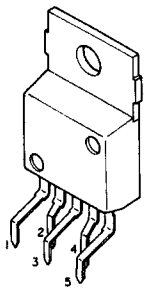


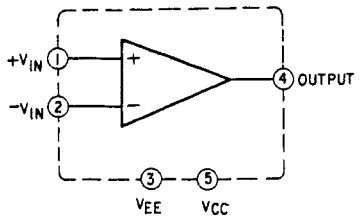
M51565P : IC1401



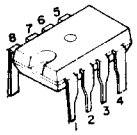


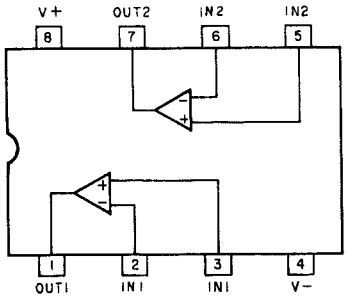
LA6500 : IC1501



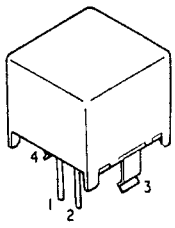


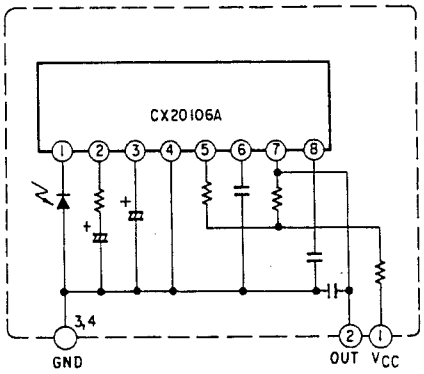
M5216P: IC7101



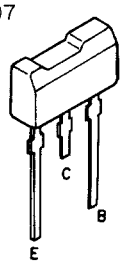


BX1387 : IC9101

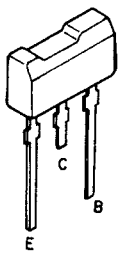


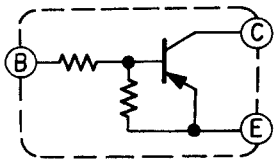


2SA1561 : Q1101
2SC4038 : Q1103
2SB1277 : Q1203, 1301, 1303, 1305, 1307
2SD1919 : Q1302, 1304, 1306, 1308



DTA114EL : Q1104, 1215





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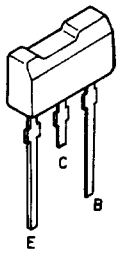
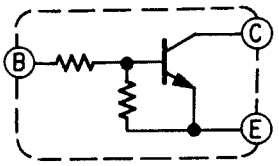
: Q9101, 9102, 9103





DTC363TL : Q1401, 1402